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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/814,515	03/31/2004	Juergen Schiemann	2916A	6915
75	90 06/20/2005		EXAM	INER
STRIKER, STRIKER & STENBY 103 East Neck Road			HOANG, JOHNNY H	
Huntington, NY 11743			ART UNIT	PAPER NUMBER
,			3747	
				2

DATE MAILED: 06/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/814,515	SCHIEMANN, JUERGEN			
Office Action Summary	Examiner	Art Unit			
,	Johnny H. Hoang	3747			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory of - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from t, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status		,			
1)⊠ Responsive to communication(s) filed on <u>05 A</u>	ugust 2004.				
•	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims	•	•			
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application					
4a) Of the above claim(s) is/are withdraw					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-15</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine10) The drawing(s) filed on 31 March 2004 is/are:		a by the Everniner			
	· · · · · · · · · · · · · · · · · · ·				
Applicant may not request that any objection to the		· ·			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex		• • • • • • • • • • • • • • • • • • • •			
The ball of declaration is objected to by the D	daniller. Note the attached Office	ACION OF IOIN PTO-152.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).			
a)⊠ All b)□ Some * c)□ None of:	.*				
 Certified copies of the priority document 	s have been received.				
Certified copies of the priority document	s have been received in Applicati	on No			
Copies of the certified copies of the prio	rity documents have been receive	ed in this National Stage			
application from the International Bureau	u (PCT Rule 17.2(a)).	•			
* See the attached detailed Office action for a list	of the certified copies not receive	ed.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 03/03/05.	5)	atent Application (PTO-152)			
J.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office Ac	ction Summary Pa	art of Paper No./Mail Date 20050607			

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DETAILED ACTION

Inventorship

1. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim Objections

2. Claim 1 is objected to because of the following informalities:

Claim 1, line 9, "the life of the outlet valve" must be changed to -the lift of the outlet valve--. Appropriate correction is required.

3. Claims 11-13 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 2, 4-9, 14, and 15 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the

art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The Applicant must clarify the word "means" or "mean" in the claims above.

- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Regarding claim 13, the phrase "for example" renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention. See MPEP § 2173.05(d).
- 8. Claims 2-9, 14, and 15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The Applicant must point out the "means" references to which element of the claims.

Regarding claims 2, and 3, the term "the same" is indefinite. The Applicant must cancel term "the same".

9. Regarding claims 2, 4-9, 14, and 15, the word "means" is preceded by the word(s) "of" in an attempt to use a "means" clause to recite a claim element as a means for performing a specified function. However, since no function is specified by the word(s) preceding "means," it is impossible to determine the equivalents of the element, as required by 35 U.S.C. 112, sixth paragraph. See *Ex parte Klumb*, 159 USPQ 694 (Bd. App. 1967).

Claim Rejections - 35 USC § 101

10 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

11. Claims 11, and 12 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Specifically.

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Claims 11, and 12, the recitations of "a computer which is programmed for performing...", and "An electric storage medium (40) for an electronic control unit (52) of an internal combustion engine (10), wherein a computer program according to claim 11 is stored" are directed toward subject matter ineligible for patenting. See MPEP 2106 IV B 1(a). On the other hand, a claim to a tangible computer-readable medium encoded with a computer data structure or program is eligible statutory subject matter, i.e. it is one of four categories of enumerated subject matter, because it is a computer element which defines structural and functional interrelationships between the computer program and other components of a computer which permit the computer's functionality to be realized.

Claim Rejections - 35 USC § 102

12. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 13. Claims 1, 9, and 11-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Fuwa et al (US 2004/0025838 A1).

Regarding claim 1, the reference of Fuwa et al discloses a controller of internal combustion engine including the following subject matters:

at least one outlet valve (3) is opened with the aid of an actuator (9) upon termination of a working stroke, thereby releasing exhaust gas from at least one combustion chamber (8) [pars. 0099-01010, 0111, and 0150];

a pressure value is determined which is indicative of the gas pressure in the combustion chamber (8) during the working stroke [above rejections];

characterized in that:

an actual value of the lift of the outlet valve (3) is determined together with actual operating parameters of the internal combustion engine that affect the valve lift [see abstract]; and

an actual gas pressure of the gas pressure in the combustion chamber (8) at the time of an opening of the outlet valve (3) is determined at least approximately based on the determined actual valve lift of the outlet valve (3) and the determined actual operating parameters of the internal combustion engine [pars. 0112-0117, 0150, and abstract].

Regarding claim 9, the reference of Fuwa et al further discloses the valve lift of the outlet valve (3) is determined by means of a linear displacement or position sensor [par. 0104, and abstract].

Regarding claim 10, as discussed in claim 1.

Regarding claims 11-13, as discussed in claims 1, and 9.

Allowable Subject Matter

14. Claims 2-8, and 14-15 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

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Conclusion

15. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Johnny H. Hoang whose telephone number is (571) 272-

4843.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Henry Yuen can be reached on (571) 272-4856.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have guestions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

JHH June 7, 2005 Johnny H. Hoang Examiner Art Unit 3747

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Francy Examiner